

AMENDMENTS IN THE CLAIMS

Please cancel claim 12 without prejudice or disclaimer as to its subject matter, amend claims 11, 14, 15, 20 and 21 and newly add claim 22 as follows:

1 1. (Previously Presented) A computer, comprising:
2 a central processing unit;
3 a main and/or auxiliary power supply for supplying main and/or auxiliary power of
4 the computer;
5 a boot image storing device for storing a boot image of the computer;
6 a main memory for storing the boot image from the boot image storing device by
7 receiving the auxiliary power when the main power is shut off; and
8 a composition memory for setting an instruction pointer of the central processing unit
9 to a specific region of the main memory storing the boot image, wherein the central
10 processing unit loads the boot image from the specific region of the main memory in
11 response to the instruction pointer, allowing an operating system program to perform control
12 functions.

1 2. (Original) The computer according to claim 1, wherein the auxiliary power supply
2 is composed of alternative one of a battery and a suspend voltage supplying unit of the main
3 power supply.

1 3. (Original) The computer according to claim 1, wherein the boot image storing
2 device is a hard disk drive.

1 4. (Original) The computer according to claim 1, wherein the boot image storing
2 device is a non-volatile memory device.

1 5. (Original) The computer according to claim 1, wherein the boot image storing
2 device is a compact disk drive.

1 6. (Original) The computer of claim 1, wherein said composition memory is a BIOS
2 ROM (Basic Input Output System Read Only Memory).

1 7. (Original) A method for powering down a computer receiving main and auxiliary
2 power, the method comprising the steps of:

3 providing a central processing unit, a main memory, a basic input/output system
4 memory and a boot image storing device;

5 determining whether the computer is powered down;

6 reading out a boot image from the boot image storing device;

7 storing the read boot image to the main memory;

8 supplying the auxiliary power to the main memory; and

9 shutting off the main power.

1 8. (Original) The method of claim 7, wherein said step of reading out a boot image
2 from the boot image storing device is accomplished according to an initial state of the main
3 memory.

1 9. (Original) The method of claim 8, wherein the step of reading out a boot image
2 from the boot image storing device is accomplished when the computer is powered down.

1 10. (Original) A method for powering on a computer receiving main and auxiliary
2 power, the method comprising the steps of:

3 providing a central processing unit with an instruction pointer, a main memory storing
4 a boot image by receiving the auxiliary power when the main power is shut off, and a basic
5 input/output system memory setting the instruction pointer

6 checking initializing steps and faults of the hardware components of the computer;

7 setting the instruction pointer of the central processing unit to a boot image storing
8 region of the main memory; and

9 executing an operating system program by reading out the boot image from the boot
10 image storing region of the main memory.

1 11. (Currently Amended) A method ~~[[for]]~~ of booting a computer, comprising the
2 steps of:

3 providing a central processing unit (CPU) having an instruction pointer, ~~[[and]]~~ a
4 memory for storing a boot image and a main memory;
5 reading out said boot image from a boot image memory;
6 loading said boot image into said main memory;
7 setting said instruction pointer of said CPU to point to said boot image in main
8 memory; and
9 executing an operating system by reading out said boot image from main memory.

1 Claim 12. (Canceled)

1 13. (Original) The method of claim 11, said memory for storing said boot image
2 prior to reading out said boot image being a compact disk read only memory (CD-ROM).

1 14. (Currently Amended) The method of claim 11, wherein said ~~step of~~ reading out
2 said boot image is accomplished when said boot image is in a compressed format.

1 15. (Currently Amended) The method of claim 14, further comprising ~~the step of~~
2 decompressing said boot image after said compressed boot image is read out.

1 16. (Previously Presented) The method of claim 7, the boot image being executed
2 to boot said computer while said boot image resides in said main memory.

1 17. (Previously Presented) The method of claim 7, said computer being booted
2 without having to read said boot image out of said main memory.

1 18. (Previously Presented) The method of claim 7, said reading, said storing and said
2 supplying steps occurring upon said determination that said computer is being powered
3 down.

1 19. (Previously Presented) The computer of claim 1, said boot image being stored in
2 said main memory in decompressed format.

1 20. (Currently Amended) The method of claim 11, further comprising ~~the step of~~
2 decompressing said boot image after said reading step and before said loading step.

1 21. (Currently Amended) The method ~~[[f]]~~ of claim 11, said executing ~~step~~ occurring
2 without having to transfer said boot image from said main memory to another location.

1 22. (New) The method of claim 11, further comprising reading out location
2 information as to where in main memory the boot image is stored from BIOS ROM by the
3 CPU.